Title (en)
SYSTEM AND METHOD FOR THREE-DIMENSIONAL MEASUREMENT OF THE SHAPE OF MATERIAL OBJECTS

Title (de)
SYSTEM UND VERFAHREN ZUR DREIDIMENSIONALEN MESSUNG DER FORM VON MATERIALOBJEKTEN

Title (fr)
SYSTÈME DES PROCÉDÉS DE MESURE TRIDIMENSIONNELLE DE LA FORME D'OBJETS MATÉRIELS

Publication
EP 2188589 A4 20170329 (EN)

Application
EP 08829922 A 20080826

Priority
• US 2008074354 W 20080826
• US 84649407 A 20070828

Abstract (en)
[origin: US2009059241A1] A system and method are provided for the 3D measurement of the shape of material objects using non-contact structured light triangulation. The system includes a light projector for projecting a structured light pattern onto the surface of any object and a camera for capturing an image of the structured light pattern acting on the surface of the object. The system further includes computing device for determining the 3D measurement of the surface shape of the illuminated object through a triangulation algorithm employed based on a calculated correspondence between the projected structured light and the captured image. The structured light includes coded elements that lie within planes passing through vertices of the central projection areas of both the projector and the camera also that pass through the space of the object being measured.

IPC 8 full level
G01B 11/25 (2006.01)

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Citation (search report)
• [X] WO 2004001332 A1 20031231 - CANESTA INC [US]
• See references of WO 2009032641A1

Designated contracting state (EPC)
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